



LDF Digital Design Weekend

Saturday 24 – Sunday 25 September 2016, 10.30–17.00

Take part in a weekend of free events exploring engineering, making and collaboration, coinciding with the London Design Festival at the V&A. Use #LDF16, #DigitalDesignWeekend to tweet about events.

Most events are free and drop-in, and suitable for all ages unless stated otherwise. F indicates a family friendly event. Please note that photography and filming will be taking place at this event. Images will be taken for use by the V&A to publicise this event and future digital programmes.

PERFORMANCES & TALKS

Altered Beauty, Virtual Futures Salon

The Lydia and Manfred Gorvy Lecture Theatre

Saturday 24 ONLY, 15.00-16.30

Fireside chat with Viktoria Modesta (Bionic Multimedia Artist) on modern identity, tech fashion and science innovation. *In partnership with Virtual Futures.*

<http://www.viktoriamodesta.com>,

<http://www.virtualfutures.co.uk>

Duty, Untitled for Cyborg String Quartet, Michaela Davies

John Madejski Garden

12.00 – 13.00 and 15.00 – 16.00

Musical performances in which the body is physically stripped of its will and left in the hands of external systems, reflecting contemporary struggles for power and control. *Supported by Australian Arts Council and Museum of Contemporary Cuts.*

<http://www.michaeladavies.net>

Pattern Recognition, Alexander Whitley Dance Company & Memo Akten (F)

The Lydia and Manfred Gorvy Lecture Theatre

Sunday 25 ONLY, 15.30 - 16.15

Duration: 45 mins, no interval. Suitable for 8+ yrs

A system of moving lights track and intelligently respond to the dancers it observes. *Commissioned by Sadler's Wells and co-commissioned by DanceEast.*

www.alexanderwhitley.com

This Happened

The Lydia and Manfred Gorvy Lecture Theatre

Sunday 25 ONLY, 12.30 – 14.30

A panel discussion sharing making processes and lessons learned.

www.thishappened.org

SHOW & TELL INSTALLATIONS & LABS

Landscape Within, Michael Burton & Michiko Nitta

Main entrance

New digestive system for the body to recover heavy metals from dietary sources grown on contaminated land. *Supported by the Wellcome Trust. In Collaboration with Dr Louise Horsfall, University of Edinburgh and Dr Susan Hodgson, Imperial College London.*

www.burtonnitta.co.uk

Machine Wilderness (F)

John Madejski Garden

Join Machine Wilderness artists to explore new imaginations on how to design our technology as being native to our ecosystems. <http://machinewilderness.net/>

Storm Laboratory, Loop.ph

John Madejski Garden

Experience the turbulent nature of geophysical air dynamics in a new immersive installation that plays with the tension between the physical and the digital.

<http://loop.ph/>

T2, ABANICO and COIN, Jochen Zeirzer (F)

Sculpture Room 21a

Interactive installations of anthropomorphic machines that seek attention or refuse to carry out the task they were assigned to complete. *In partnership with Ars Electronica Linz, supported by the Austrian Cultural Forum.*

http://www.jochen_zeirzer.public2.linz.at/index.html

SelfReflector, Jayne Wallace, Jon Rogers, Pete Thomas, Mike Shorter and Richard Cook (F)

Fashion Room 40

An internet connected mirror able to calculate your age and play music from when you were a teenager. *Funded by the Engineering and Physical Sciences Research Council for the Connected High Street Project.*

<http://productresearch.dundee.ac.uk/>

Silk Leaf, Julian Melchiorri

Leighton Corridor

The first man-made biological leaf prototype which harnesses natural photosynthesis to convert carbon dioxide into breathable oxygen.

www.julianmelchiorri.com

Current Table, by Caventou

Leighton Corridor

An intelligent living object that uses the property of colour to convert light into energy, like plant photosynthesis. Caventou by Marjan van Aubel uses solar technology to make everyday objects independent power sources.

Retro Product-Vacuum Cleaner Instrument, Yen Tzu Chang

Leighton Corridor

Hybrid project mixing analogue and digital sound, creating a nostalgic atmosphere from the point of the future. *In partnership with Ars Electronica Linz, supported by the Austrian Cultural Forum.*

<http://www.changyentzu.com>

Ingenious and Fearless Companions, The High Altitude Bioprospecting Team

Leighton Corridor

Installation based on research and attempts to discover and communicate with bacteria living in the Stratosphere, including the remains of the wrecked robot which fell to earth from a rocket. *Commissioned by Birmingham Open Media.*

<http://unnecessaryresearch.tumblr.com/IFC>

Hola Goldberg!, Centro de Cultura Digital, Mexico City

Learning Centre Reception

An installation reconsidering social networks, from the virtual to the physical.

Supported by the British Council

your unerasable text, Stefan Tiefengraber

Learning Centre Reception

Interactive installation dealing with the topics of storage and elimination of data. *In partnership with Ars Electronica Linz, supported by the Austrian Cultural Forum.*

<http://www.stefantiefengraber.com>

Let's talk business & MEGACORP., Linda Kronman & Andreas Zingerle (KairUs art collective)

Learning Centre Reception

Narratives of internet fraud, and scam technologies. *In partnership with Ars Electronica Linz, supported by the Austrian Cultural Forum.*

<http://kairus.org>

Visiting International Artist Yuko Mohri

Learning Centre Reception

Everyday items and machine parts collected around the world are reconfigured into self-contained 'ecosystems', channelling and conducting intangible energies. *Recipient of the prestigious Nissan Art Award 2015. Supported by White Rainbow Gallery and coordinating organisation AIT, Tokyo.*

<http://mohrizm.net/>

Planting the Seeds of Wellbeing, University of Nottingham & Royal College of Art

Learning Centre Design Studio

Make a simple digital plant sensor as part of this project allowing care for living plants and improving our lifestyles and wellbeing. *Supported by EPSRC ITaU Network, The Food Standards Agency, Horizon Digital Economy Research Hub.*

Tanglebot workshop, Lovebytes (F)

Learning Centre Art Studio

Sessions start on the hour, 10.00-16.00. Limited places.

Get tangled-up with unruly robots in this messy introduction to codes and threads with wires, wool, Lego and Raspberry Pis.

FoAM Kernow, Weaving Codes. Supported by the AHRC Digital Transformations Theme.

<http://kairotic.org/a-tanglebots-workshop-report/>

The city for all open workshop, Arianna Mazzeo

Learning Centre Seminar Room 1

Co-create and share your creativity discovering a new relationship with everyday objects in the city.

Supported by ELISAVA Barcelona Design School and Engineering.

<http://www.opendesignworkshop.eu/>, www.elisava.net

Mozilla Open IoT Studio

Learning Centre Seminar Room 3

A professional learning network committed to making the Internet of Things more open. We create prototypes and advocate for privacy, digital literacy and diversity & inclusion as the internet evolves into more physical and ubiquitous forms.

<https://github.com/openiotstudio>

Open IoT Design Sprint: the future of engineering is open and local

Learning Centre Seminar Room 3

Join Mozilla Open IoT Studio & collaborators to make & share prototypes that serve local communities & celebrate the unique affordances of physical places. *With Met Office Informatics Lab, Women Hack for Non Profits, BBC R&D, Grace Quintanilla/Centro de Cultura Digital, The Open University & MAKLab Limited, Future Cities Catapult, How To Build Up, Uniform and more.*

8-bit Mixtape & Biosynth, Andreas Siagian (F)

Learning Centre Seminar Room 3

Initiated by Marc Dusseiller, Budi Prakosa & Andreas Siagian, 8-bit Mixtape is an open hardware synthesizer to play 1 line algorithmic symphony in a live performance. A Biosynth workshop will introduce basic electronics and biology interactions. *In partnership with and supported by the British Council.*

<http://lifepatch.org>

LiveWire, Miebi Sikoki

Learning Centre Seminar Room 3

LiveWire is a mini CNC wire bender that can take lines and curves created digitally and replicate them in brass wire. It can output any 2d vector line from Illustrator and can be clipped or soldered together to create 3D structures. *In partnership with and supported by the British Council.*

BioNet. Agriculture, Will Joyce, Nick Aristidou, Stelios Chatzimichail

Learning Centre Lunchroom

Edible biopolymer to wrap hay, straw, silage bales and replace the current fossil fuel derived plastic. The biopolymer can save farmers time, has nutritional content and is safer for livestock.

CyanoFeed, Matt Pope and Alex Nash

Learning Centre Lunchroom

Developing sustainable feedstocks for aquaculture. *With support from Dr Patrik Jones and Imperial Create Lab.*

How to Build a Water Filter: A DIY Tutorial From the Future, Vytautas Jankauskas

Learning Centre Lunchroom

A home-made water filter becomes a symbol of resistance in a future, where limited access to a vital resource becomes part of our identity. <http://montague.lt/portfolio/how-to-build-a-water-filter/>

Parallel Practices, Wheatstone Innovation Lab (F)

Learning Centre Lunchroom

Internet-connected enamelled automata, hyperuniform-patterned glass and digitally-embroidered muscle sensors. *Supported by the Faculty of Natural and Mathematical Sciences, King's College London, the King's Cultural Institute and the Crafts Council. Supported by the AHRC Digital Transformations Theme.*

The GyroGlove

Learning Centre Lunchroom

The GyroGlove stabilizes hand tremors using beautifully simple gyroscope technology. Built to be more than a device. Built to become a life changer.

<http://gyrogear.co/>

Bento Lab, Bento Bioworks Ltd.

Learning Centre Lunchroom

A DNA analysis laboratory that can be taken anywhere. With Bento Lab, everybody can get hands-on with genetics.

<http://www.bento.bio>

Crossmodalism

Learning Centre Lunchroom

A community linking scientists, artists, and entrepreneurs/designers. Join us exploring the full human experience! *Supported by the AHRC Digital Transformations Theme.*

www.crossmodalism.com

Music Making >= Computer Programming, Rob Toulson & Jerry Fleming (F)

Learning Centre Lunchroom

A programmable robotic drum kit, hacked audio circuits and live music coding with the Raspberry Pi computer. *Supported by the AHRC Digital Transformations Theme.*

<http://www.robtoulson.com>

Instatype

Learning Centre Lunchroom

A novel medical device start-up providing a point-of-care blood grouping solution.

www.instatype.co

Knit

Learning Centre Lunchroom

Interactive experience exploring how physical and digital technologies can be engineered to work in harmony.

<http://weareknit.co.uk>

The Great Steampunk Game Jam: a reimagining of Victoriana from the archive (F)

Learning Centre Lunchroom

Games inspired by material held at The National Archives responding to themes of Invention, Spectacle and Unrest. Supported by the AHRC Digital Transformations Theme.

James Watt - a VR encounter with the engineer

Learning Centre Lunchroom

Using VR to explore the 3D dataset of a negative cast form and the newly - discovered portrait bust of the engineer James Watt. *Underlying dataset commissioned by the Science Museum, with kind permission to use for this project. VR & app development by 3DIMPact / UCL CEGE. Supported by the AHRC Digital Transformations Theme.*

Ironbridge Institute, University of Birmingham

Learning Centre Lunchroom

Find out how the collections and sites of the Ironbridge Gorge, the birthplace of the Industrial Revolution, are increasingly accessed and opened up by innovative digital technologies. *Supported by the AHRC Digital Transformations Theme.*

<http://www.ironbridge.org.uk/>

OFFSITE installations: Verena Mayrhofer & Dawid Liftinger, Austrian Cultural Forum

28 Rutland Gate, SW7 1PQ – 10 mins walk from the V&A. *In partnership with Ars Electronica Linz and the Austrian Cultural Forum.*

<http://www.acflondon.org>

Polyphonic Futures, Veronica Ranner, Royal College of Art Raphael Gallery

Contribute to an evolving online platform that visualises emerging infrastructures of the bio-digital — the domain where computational approaches meet biological matter. *In*

collaboration with Tufts University (MA, USA), The Arts Catalyst, Imperial College. Funded by the AHRC as part of The Creative Exchange (CX).

www.polyphonicfutures.com

V&A Samsung Digital Classroom, Dubloon

Raphael Gallery

Mobile light installation with custom furniture embedding teaching and learning in exhibition spaces. *Supported by Samsung.*

<http://www.dubloon.co.uk/>

Build Your Own Pavilion Young Architects Challenge: Digital Design Workshop

Raphael Gallery

Sunday 25 ONLY, 14.00 - 17.00

The Serpentine Galleries and Kidesign are challenging budding young architects to design the pavilions of the future. If you are aged 8-14 years, come and show us what you can do! Respond to a brief, sketch your ideas and create a 3D digital model using CAD software.

Enter the competition for a chance to win an iPad, plus other fantastic prizes.

buildyourownpavilion.serpentinegalleries.org

FAMILY ACTIVITY

Scan the World, MyMiniFactory (F)

The Salon, Europe Galleries

Help us to scan the V&A's collections, see printers in action and learn more about how you can use these 3D models.

Supported by iMakr.

<https://www.myminifactory.com/pages/scan-the-world>

A publication supported by AHRC and designed by Uniform including contributions from participating artists and designers will be distributed free during the event.